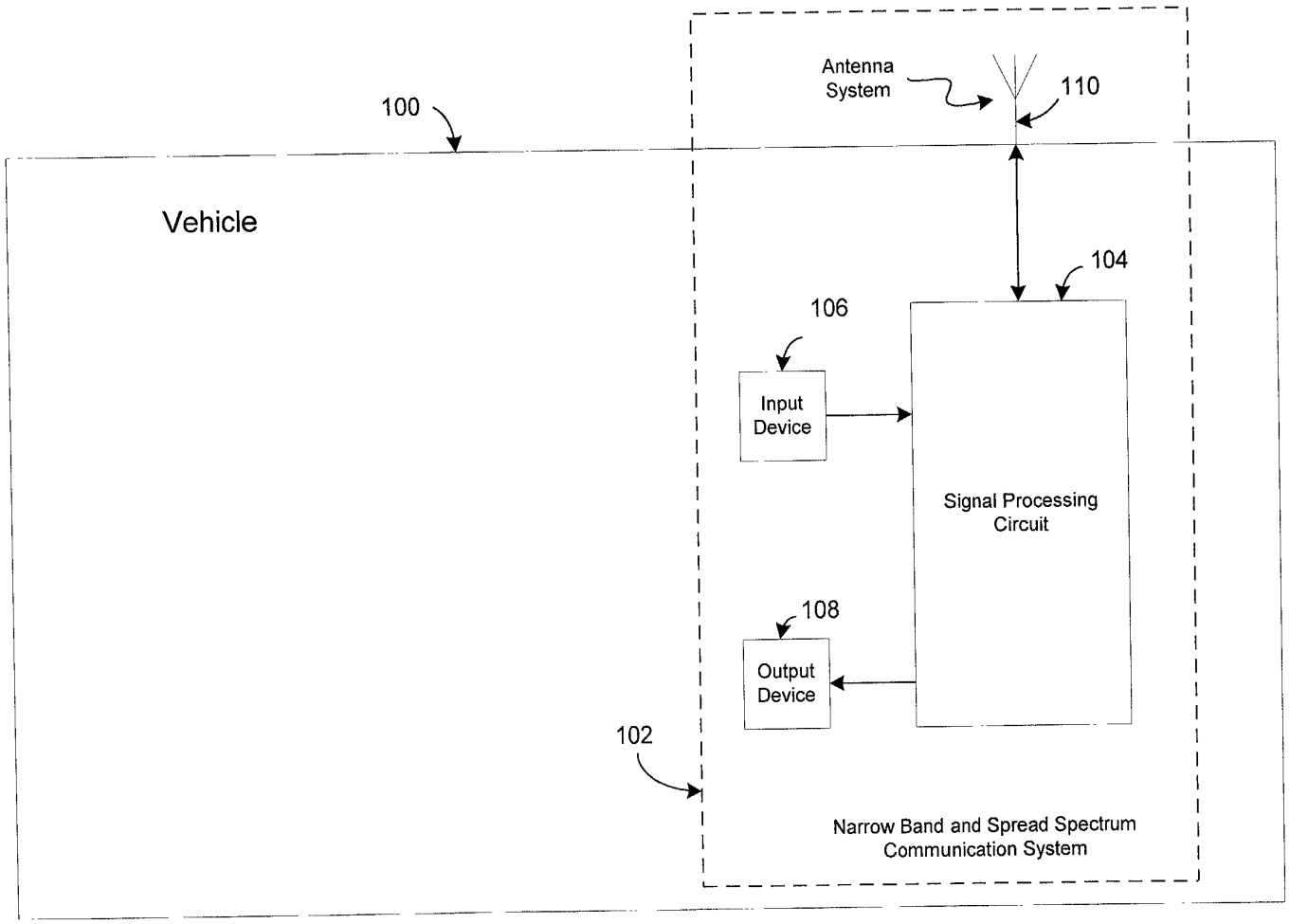
Antenna System
110
100
Vehicle
104
106
Input Device
Signal Processing Circuit
108
Output Device
102
Narrow Band and Spread Spectrum Communication System

Figure 1

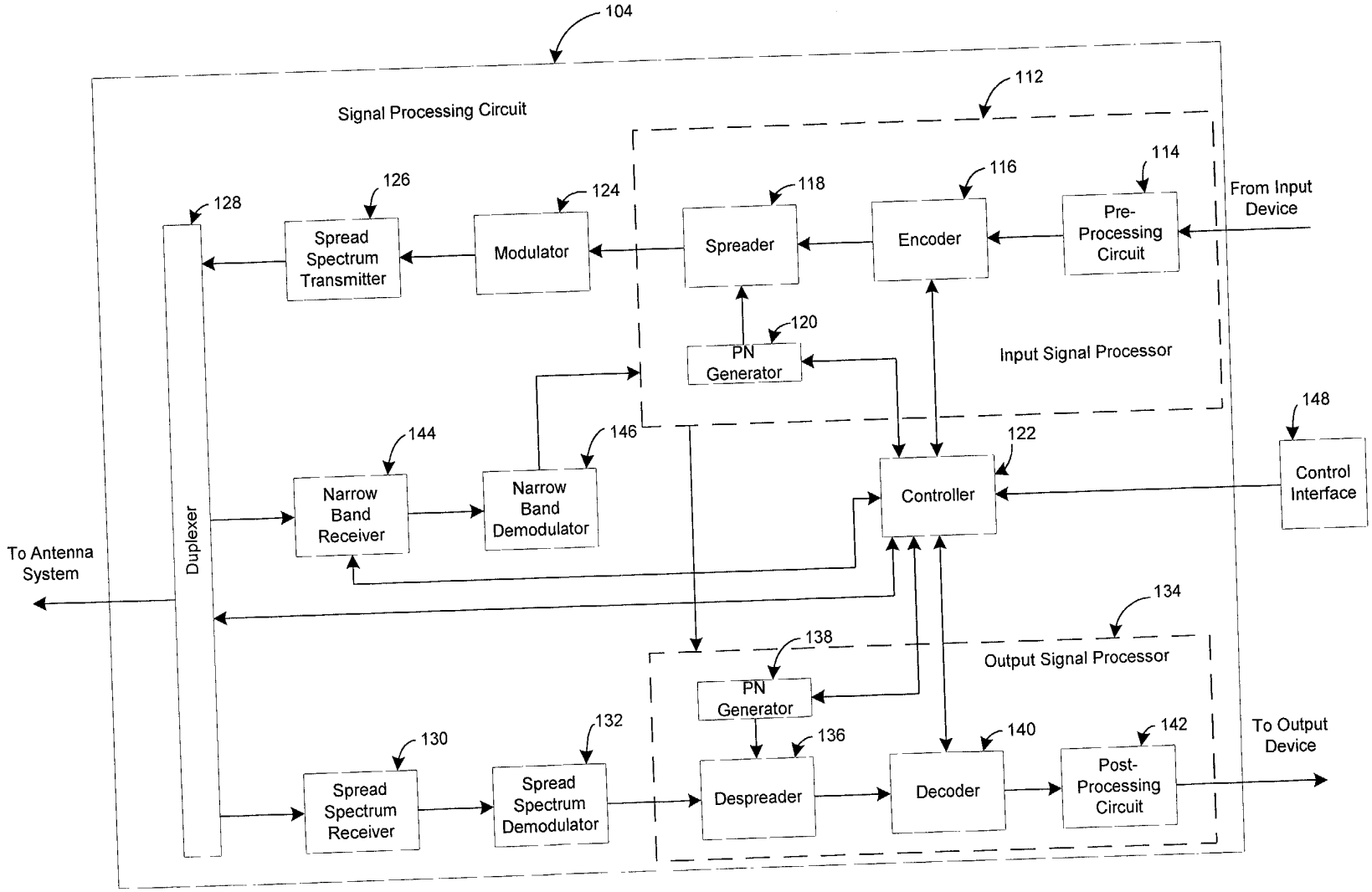
104
Signal Processing Circuit
112
Input Signal Processor
114
Pre-Processing Circuit
From Input Device
116
Encoder
118
Spreader
120
PN Generator
124
Modulator
126
Spread Spectrum Transmitter
128
Duplexer
To Antenna System
144
Narrow Band Receiver
146
Narrow Band Demodulator
122
Controller
148
Control Interface
134
Output Signal Processor
138
PN Generator
130
Spread Spectrum Receiver
132
Spread Spectrum Demodulator
136
Despreader
140
Decoder
142
Post-Processing Circuit
To Output Device

Figure 2

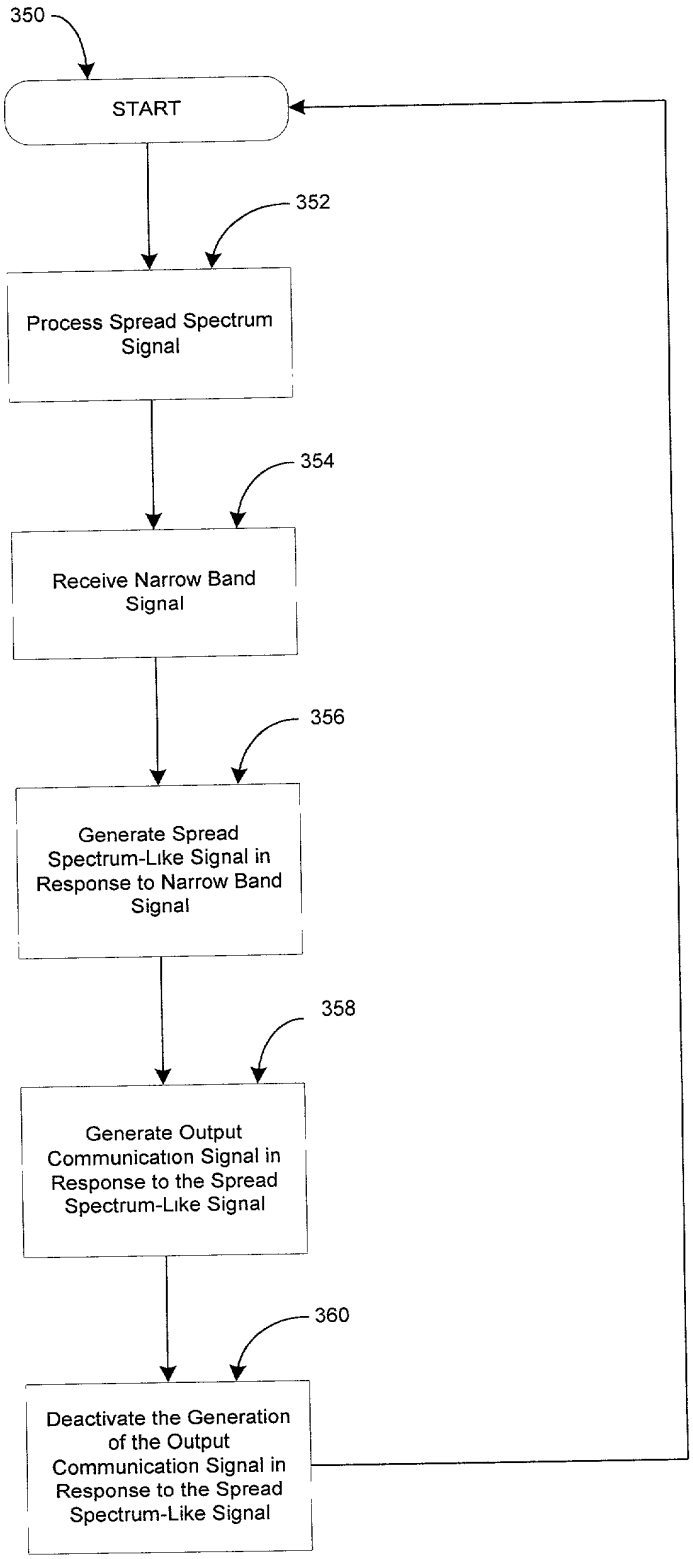
350
START
352
Process Spread Spectrum Signal
354
Receive Narrow Band Signal
356
Generate Spread Spectrum-Like Signal in Response to Narrow Band Signal
358
Generate Output Communication Signal in Response to the Spread Spectrum-Like Signal
360
Deactivate the Generation of the Output Communication Signal in Response to the Spread Spectrum-Like Signal

FIGURE 3